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Inaugural Lifertation

Cynanche Trachealis

Tubmitted to the Examination
The Trustus of Medical Faculty

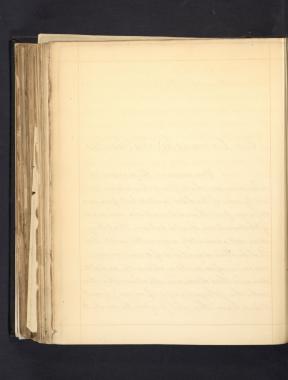
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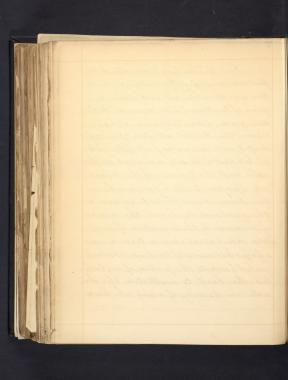
For the Degree of Doctor of Medicine
By William Coryell
Frew Jersey
Paper March 25th 1826

On Cynanche Kachealis

If soe scamme the accords of medicine, we shall find this disease with page from their delineations, and mode of the draw from their delineations, and mode of the draw, we should believe, that they were not accurately acquainted with it, or. that in their day it was of so nace occurance, or of so mild a character as not to demand that close, and street investigation which polysicians of more accent times have thought proper to devote to



it. Dr. Home of Edinburgh was almost the first who scientifically serutinized its noture and character, and laid down a plan of treatment, more congenial to its true grade - Since that period, it has claimed the strictest attention from celchated men in various parts of the globe. As a part of the duty incumbent on those who seek the honours of the Univer sity. I propose to offer a few remarks on this disease. Gould I hope to a dvance in the most remote xegree the science of medicine by the suggestion of any new or important idea, or trace a more efficacious mode of treatment. I should joyfully execute this portion of my tash. but when I call to recollection, the character and standing of many who have



unitten on the subject: when I compare their extensive experience with my own limited opportunities, and looking inward at my own Jeoble power, I am almost disposed to cast away the pen in despair and if perchance, any novel sentiment may have arisen in my mind, and I should feel aisposed to hazard its exhi bition, Ineflect that the juvenile attempt is to meet the scruting of those, whose names stand high in the temple of fame, and that every opinion suggested must stand the investigation of univalled thill and experience under these consid. nations Jalmost shrink from the attemps: but buoyed up by the hope that the effusions of a Tyro will be viewed in their true and proper light, and not weighed in the same scale with the

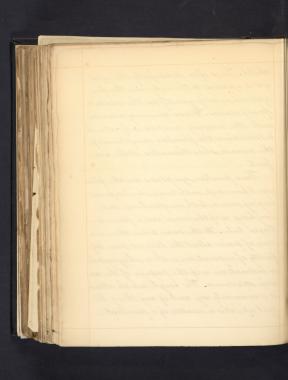
emanations of skill and experience. I approach the subject.

tognanche Grachealis. It is to be know by a preculiar ninging sound of the voice, by difficult respiration, with a sense of the distining about the largery, and by a pracia attending it.

This disease soldow allacks infants till after they have been weared. If the this period, the nounger they are,
the more they are liable to it. The proguency of it becomes left as children become more advanced; and there are no
instances of children above tirelow years
of age being affected with it. It attacks
who live mear the sea. It does not appear to be contagious, and its attacks
are propuntly repeated in the same

child. "It is often manifestly the effect of celd applied to the bedy; and therefore apprears most prequently in the winter spring seasons. If very commonly comes on with the vainary symptoms of catanhy had semilines the proution symptoms of the airease show themselves at the very first.

These peculiar symptoms are the following: I hoasseness, with some shrillness and dinging sound, both in speaking and coughing, as if the paine came from a bazen tube. It the same time, there is a some of pain about the sary nx, some difficulty of respiration, with a whizing sound in inspiration, as if the propage of the air were straitened. The cough which attend it is commonly any; and if any thing be specifically, it is a matter of a purillent



appearance, and semetimes films neembling proceeds of a membrane. Together with these symptoms, there is a procure og of pulse, a restlepuse, and an unear sense of heat.

"When the internal fauces are viewed they are sometimes without any appear, ance of inflammation hit frequently a reduct and sometimes in the fauces there is an africanance of matter like to that rejected by coughing. With these symptims move described, and particularly with great difficulty of breathing, and a sense of shangling in the fauces, the patient is sometimes suddenly taken of bullows first line-

There is likewise a vare disease,

sometimes occurring in cutain countries, never in others, called the croup by me sologists cynanche Hindula I'm this disease the respiration is baharious, the inspiration sonorous, with houseness, a ringing cough and a swelling scarce to be discussed. "It is a disease that inferts young children almost only...

"The croup is an inflammation of the upper part, and the periposume nia of the same organ viz. the tracker or windpipe.

To wichman of Hanover believes that the acute asthma of Miller or hive, has been confounded with the augura polypera or croup, which has occasioned the great difference in the treatment recommended by authors; as the disease

has been esterned inflammatory by some, and spasmodic by others.

The convulsive asthma, which Thave witnessed in one child, was readily distinguished from the croup; as there was simply a great exertion in breathing but without the harsh sound which attends the inspiration in the latter. a convulsive difficulty of respiration may thus be easily distinguished from the croup: as in the former the patient draws in the breath easily, and then voluntarily closes the langue, and voluntarily uses great exection in forcing out the heath, with design to relieve some prain by this violent exertion, as in har oxysms epilepsy-

"On the contrary in the croup, the breath is easily expired, but the inspe.

rations are attended with the utmost difficulty. "This difficulty of inspiration may be sun by newing the region of the stomach; as when the child raises the steenew for the purpose of drawing in its heath, the preasure of the atmosphere on the his of the stomach proper the diaphragm who was, and makes a sudden and great hollow in the sorolicules couds. "This difficulty of inspiration and not of expiration, is also known by the hash sound, which only altereds the inspiration."

Darwins I ronomia.

"The croup is an inflammator of fection of the mucous membrane of the trached and langue, which in some instances extends, however even

to the honchia and over the surface of the sungs, to which children are peculial subject, producing an evendation that appears partly in a membranous conting, and partly in a fluid arounding face, and is attended with a freedom who a preculiar schuzeng smorous inspiration, compared by some to the crowing of a coch, a similar articularies much in soughing and flush ing, great difficulty of his thing, thirst and this fehile symptoms, at likewise by some agree of praymodice affection?

The physicians have judged it from to divide croup into two species riz! idiofrathic when the direase is primarely and extensively realed in the trachia, brouchia and surface of the lungs; and symptomatic where it appears as the consequence of some privious diseases,

such as the measles, scarlitina, or cynan. che maligna". Thomasi practice -

"Angina strictula". This is the enmanche trachealis of Gobullen, a dinase for its singularity and fatality, has fixed the attention of firsthologists and practitioners be with we could solve the of ficulties or direct a more scientific or mecofful method of cure than has hither to been adopted

"The angina stridula (from the due to make a noise) is called also an gina membranacca, interna, premisecoa, polyposa, coto ahus sufficativus, and morbers strangulaterius, it is chiefly a direase of children and idistinguished by a difficult inspraction, sounding as through a hoots tube, hash cough, with seldom any tumor in the throat, and no diffi.

culty of swallowing, a cold and short cough precisedes for some days, when the harsh breathing comes on with little or no fever sometimes suddenly, at others more gradual. by, increasing by degrees, untill suffication comes on, which closes the scene. "The other functions are searcely disturbed. The pulse at first, a little harsh or slightly quickened, in the progress becomes very vapid and low. "The face at first flushed, is in the latter stages lived, though sometimes full. "The stomach and bowels are not apparently affected. "The cough is day, flaky substances are shit up, and the patient struggles with an attempt to spit up something solid from the tracker "The internal fauces are in a very few instances, weller and red- "It is sometimes epidemic, seems more frequent in low marshy situations,

than in more elevated spots, and free diar to children, at least searcely over at tacking those above trulve years? Pam.

The professor of the bracker of medicine in the My ak invocate to the siscase into the stages, each upwing a preculiar treatment of the forming, febrile, and membrances pureling

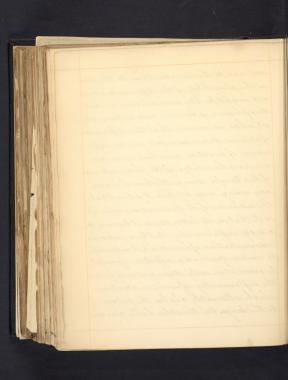
Having thus detailed the Amplicant of this formed able disease addinated on the affect, and duming it unnecessare to the subject, and duming it unnecessare to tend the description further. I proceed to enumerate the cause. These I shall divide tinto remote and preximate, observing one you all, that the semote cause or causes of you from all that the semote cause or causes of you from all the same as those exciting the signal

disease, as this form of it can only be could need as an extension of original disease to the parts weally affected in this malary. The number cause of inispathic croup has been universally attributed to cold, suddenly

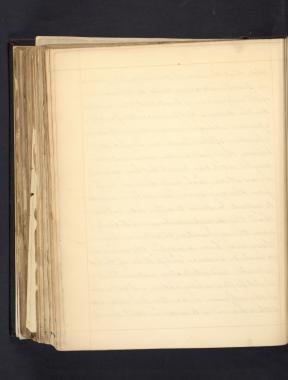
applied to the body, or to the operation of those causes which produce cutarch is the effect of promess which dimensels or see pend purposed from its small a natural or of the collects.

But the proximate cause has afforded a wide field for dispute bone contending that it was suffarmed endeavoing to prove, that it was inflammation, and that spasm, if it ever existed was much the effect of inflammative initation. With pleasure could we read the various reasons addiced by each party in suffered of their farricle hypothesis, and vield af-

sent now to the one side, then to the other as the plausibility of the arguments advanced might for the moment carry us: but this pleasure is converted into intense inter est, when we discover that this diffmance of opinion demands a still greater disso nance of practice, and that upon an accurate knowledge of the proximate cause of this terrific disease the lives of many, very many, may define. It is true that the advocates of its spasmodic origin ad mit, that in its latter stages it becomes de. cidedly inflammatory: but by a judicious administration of remedies best calculated to remove spasmodic affections, prompt. ly given at an early stage, you may prevent the inflammatory effusion, or secretion. which uttimately chokes the papage to The lungs. On the other hand, you are



told, that the idea of spasm, as the frima my proximate cause tends to the exclusion of the only mode of treatment that will put due the disease. If the advocates of each opinion adduced arguments merely in con roboration of their cause, we might still believe, that post morten ecamination's might settle the point but here again, we are at sea, each party claiming proof from this very source; and we have moright to dispute oredence to either side; but how thall this discrepence be reconciled? only when the supposition, that preconceived theory may have so wasped the mind, as to exclude evidence, unless it be of the most palpable and satisfactory nature. That slight inflammatory action, not get arrived at the suffusion, or secretion point, and so little advanced as to evidence itself strongly



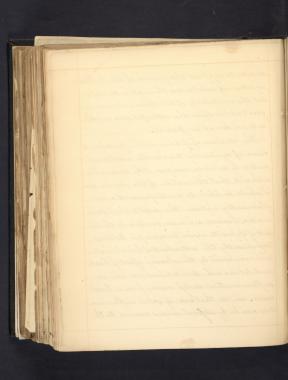
post mortem) may in certain initable constitutions create spasm, has been en. dently proved in other cases, and that this spasm in an organ of such delicate struc ture as the langua may be so great as to produce suffication, Thave no doubt-A case illustrative of this idea has been no. lated to me by my preceptor. a young lady of writable temperament, was suged with a general inflammatory affection of the fauces, but attended with little or no febrile affection; and for a few days was deemed of trifling import, both by huself and her physice. an, atthough she complained of extreme soreness and pain upon endeavouring to swallow; at length this une aseness in creased so much, that whow attempting to swallow some food, a spasmodic affection of the asoph agus prevented its passage into the stomach

and it was rejected, and this spasm of the asophagus continued and increased whenever an altempt was made to swallow, and ulti. mately every effort of this kind produced gen ral spasm, untill at length she was exhaus ted for want of food, and died from many tion after the lapse of some weeks, although every exertion was made by enemata of a nu. tritions hind, and by prequent immersion of the body in mutitions fluids. That there was no actual obstruction to the passage to the stomach, was proved by the repeated free ejection of substances from the Homach, and in the latter periods of her existance, by an inversion of the whole intestinal camal, as evidenced by the exection of matters from the stomach similar to the enemata. a probang was introduced into the Stonach in This case, and an altempt was



made to support the powers of life by the injection of substances through a canula, but the initalisty of the Homach was so great, at the time the attempt was made, as to pender it ineffectual.

The opinion of sparm, as the proximate cause of commente trachealis is not corrobe erated by analogy, nor can it be reasonably, supposed that the action of the servole cause is usually be likely to create sparmodic as in-fammating action. The most violent sparmodic diseases, are more commonly the servet of opposite cause, for example Islamus is frequently the alternate of hot climate, and occasioned by the selection of heat and det me ask, does belone ever ind in inflammation unless arising from a local cause, and in that cause if active inflammation and the means cause and to the



suppurative point, the original disease is relieved and in cynanche trachealis, whenever the inflammation is carried to the sup. purative, suffusive, a secretive point, the violent convulsive breathing appears to a. bate. Let the point be examined a little fur there a child is exposed to the action of cold, a topo is produced upon the exhaling wes. sels, a portion of the fluid usually carried of by insensible purspiration is retained, and for a certain period the vefsels thus exposed act with aiminished power, this must distend the residue of the refels, and perhaps excite increased action from its acrimony, From a preculiar association of action betw. un the refiels of the skin and throat, in certain constitutions, and perhaps gene rally in the constitution of children, the refsels of that part feel more directly

and more acutely the injury sustained if such expression is correct) than the general map of pepels. and how do they feel it? either by a peculiar distension, or by increased ac. rimony; in either case reasoning from the nature of the effecting cause, the structure of the part affected, or from analogy. I should presume that inflammation would be the assult; and I can easily imagine that the inflammatory process in its early stage, before the diseased refiels have relieved them. selves by the discharge of the material, which forms the new membrane, may (in a part as exquisitely sensible as the largery and tracked so initate the nervous filaments, as to produce violent spasm, and that the contin. nance of this spasm for a few hours should aestroy life. Was I therefore to assume an opinion in this case it would be.

That the remote eauses of inispathic coup act the aiminishing the secretion and exhilation of the insensible prespiration.

That this aiminished actions of the exhalute induces descared action of the sofuls of langue and teacher. That the diseased action the induced is inflammatery not frasmodic Sinfer.

I From the estal effect perduced by obtime ted preferation or other fracts of the system of similar structure.

2. From the rivlent properior which so speed ily succeeds an attach of this disease

3. From its resulting to generally from the application of cold, which is the common amote cause of all our inflammatory summed. From the well known fact, that praised is diseased of their own accord, uld on if ever terminate in inflammation but who

they do destroy life, it is by an action sui

That the diseased a inflammating action its early stages, before the sucharged refuls hove artificial themselves by sufficient received felo.

ments, and this freshme a writation for duces sparm a convulsion.

That this fram a convulsion is projunt by soproleut, as to terminate existance in a few hours

That in such cases, the drangement of the pepels from consistion or inflammation has been so transitive, as to leave little a no cridence of its excellence put mortion. That from this cause, has viginaled the

opinion of the disease being purely spass mode, and that inflammation when it did seit, was the effect not the cause

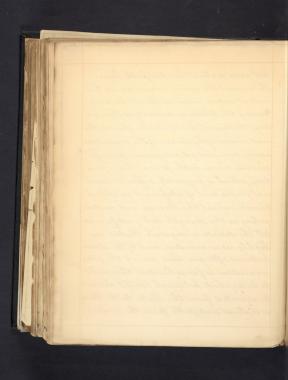
of this spasm.

If the frincen now given be correct, it will at once be precived, that all means calculated to remove fram, as the original cause of the disease must be prinicious and that all our efforts must be de rected to the distinction of inflammation as a sine quanon of victory.

Whether the membrane is frequently part in this complaint be an altered secretion from the glands of the part, as a prouliar suffering a immanation from the exhalute, is a present which I shall not attempt to discup, as in a practical view I dum it of little importance.

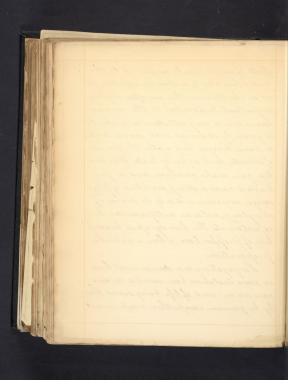
In the treatment of this disease, the most prompt and regards plan must be adopted. There is no time for reflection; do aboration in generally advisable in import

ant cases is almost inadmissible here. The moment the disease is ascertained, that instant active measures should be used. Diewing the disease as decidedly inflamma tory; the lancet should not be spared. The most eminent physicians of the present day advise vene sect ad deliquium. Powerful emetics, warm bath to aid their operation which is frequently difficult). mucu rial purges, and if relief is not quickly ob tained, repeat the bleeding and emetics as long as the strength will justify, or un till the disease is conquered. Blisters are highly recommended, and if the disease continues after you have carried the active evacuations as far as predent, they ought to be applied : but much benefit cannot be expected from the blister to the throat. as it almost impossible from the violent



efforts of respiration, to confine it to the part when the bronchia are affected, pla ced on the Minum they are often highly important. In addition to the means here advised, every collateral aid should be given, by steaming with warm loater, a warm hinegar and water. The free use of ailuents, such as bailey water flax sud tea, gum arabic emulsion, and in protracted cases a strong decoction of poly; senega, as neonmended by Dr archer of Maryland, not as an antispasmode but expect out. The hive syrup, a preserie. tion of professor boxe, is here a valuable preparation.

Langungo tomy, as a dunin most, has in some instances been mode at to and case are on recard of life being saved him by In geneine idiopathic croup unac-



companied by trenchial effusion, after the failure of other remedies, it estamly ought to be tried and with the imperious duty of the physician, however ful on the hope, to we very propuble means to rescue his patient from death.

